
CDF Operations



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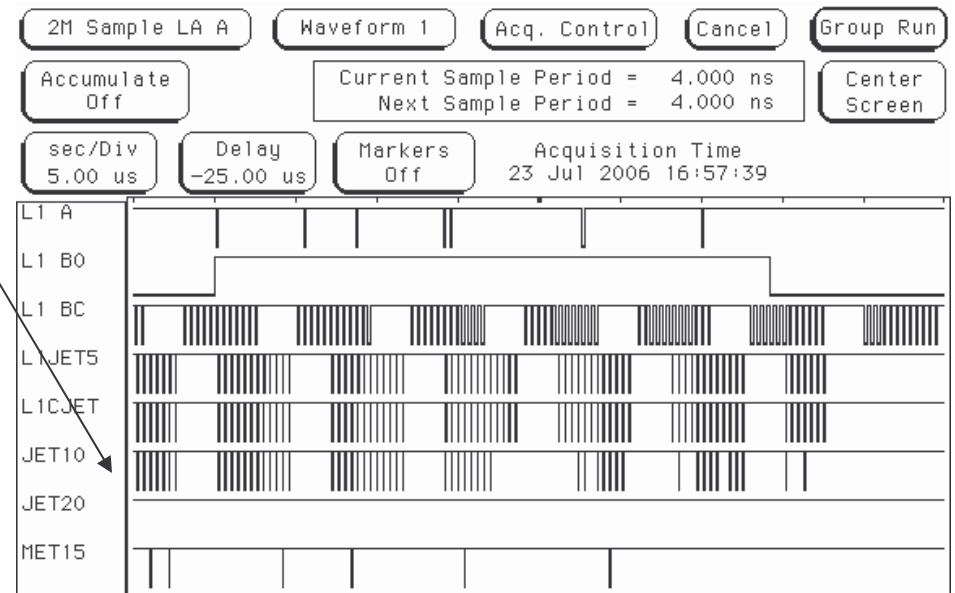
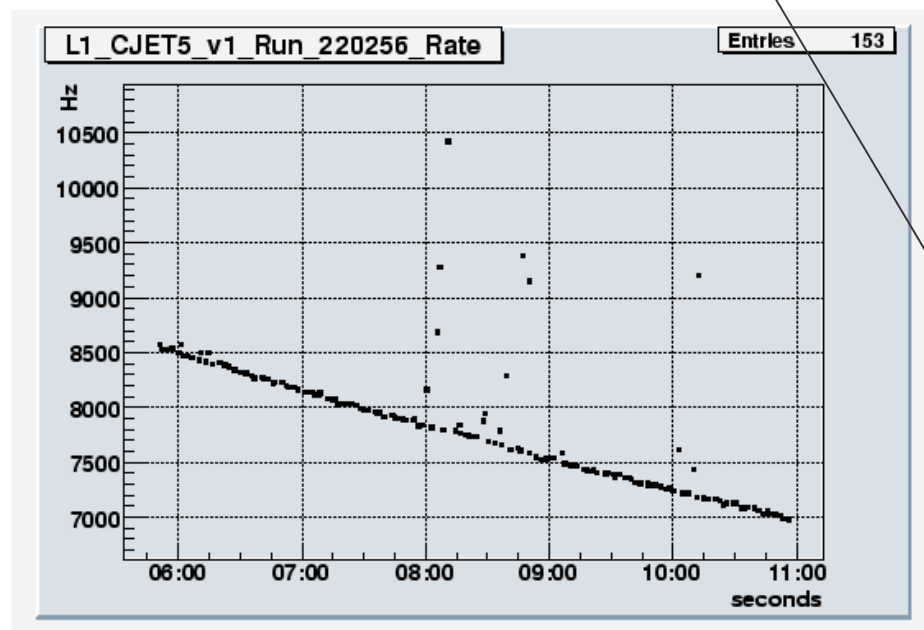
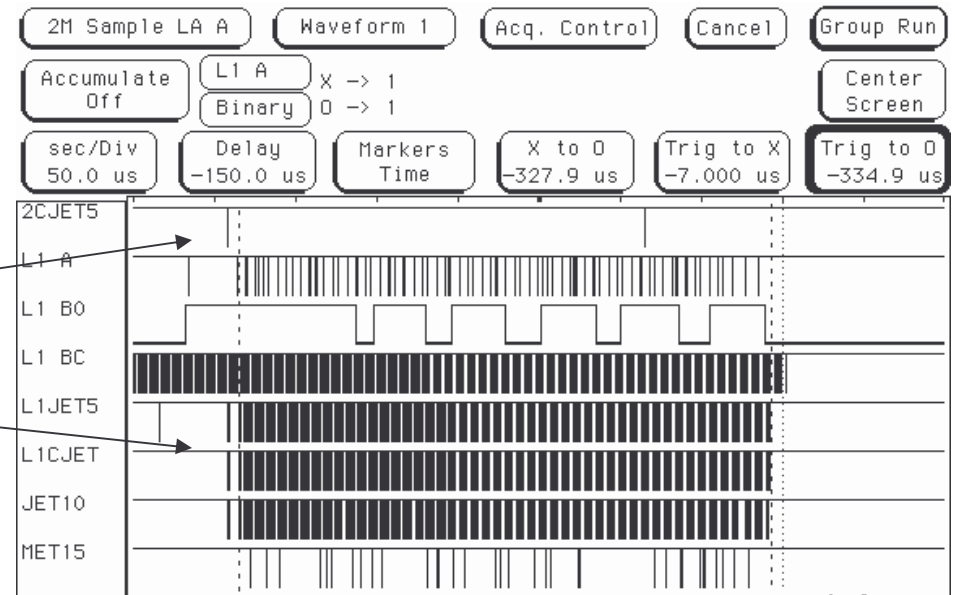
All Experimenters' Meeting
July 24, 2006

Store Summary (July 17-24)

Store	Start Date	Duration (hours)	Initial Lum (E30)	Delivered Lum (pb ⁻¹)	Live Lum (pb ⁻¹)	Good w/Si (pb ⁻¹)	Comments
4838	7/17 Mon	33.5	79.7	3.39	2.94 87%	2.82 83%	last 3.5 hours were TeV studies
4839	7/18 Tue	21.4	106.4	3.36	2.83 84%	1.24 37%	Online computer issues TSU problem, AG losses
4841	7/19 Wed	4.6	130.1	1.60	1.37 86%	1.37 86%	BMU, CSX problems
4845	7/20 Thu	24.6	105.8	3.75	3.46 92%	3.46 92%	CSX fixed, BMU/TSU still bad
4847	7/21 Fri	33.0	156.5	6.73	5.62 84%	5.29 79%	Plug CAL electronics trip Silicon resonances return
4851	7/23 Sun	27.4+ ongoing	179.5	6.92	6.01 87%	5.10 74%	Second-highest initial luminosity!
Total		144.5		25.8	22.2 86%	19.3 75%	

Silicon Resonances

- Sync Si readout breaks wire bonds
- Hardware protection against this
 - Firing often since shutdown
- Problem apparently due to single-tower calorimeter triggers
 - Here, but not here
- Also depends on energy threshold
 - JET10 not quite as bad, JET20 doesn't exhibit problem



Controlled Accesses

- Wednesday July 19
 - Check low-voltage power supply for forward muon scintillators
 - Could not be repaired in the time available
 - Collateral damage to a forward muon chamber power supply
- Friday July 21
 - Forward muon scintillator power supply successfully replaced
 - Chamber power supply also fixed (loose connector)
 - Investigation of silicon ladder with high error rate
- Other work
 - Repaired electronics problem in the central muon scintillators
 - Level 1 trigger decision maker suffering single-bit RAM errors
 - Caused one trigger to drop in rate – installing spare fixed it
 - Test of silicon track trigger (SVT) track pruning
 - Continuing work on the trigger stereo tracking upgrade